FILE 'HOME' ENTERED AT 10:36:53 ON 04 MAY 2001)

FILE 'REGISTRY' ENTERED AT 10:37:05 ON 04 MAY 2001 L1 22 S VPDKTVRWCAVS/SQSP E VPDKTVRWCAVS/SQEP

FILE 'CA' ENTERED AT 10:38:42 ON 04 MAY 2001

- 11050 S TRANSFERRINS/CT
- 54785 S MOLECULAR CLONING/CT
- **72 S L3 AND L4**
- 878481 S MUTAT? OR SUBSTITUT? OR MUTANT? 1.2 11.5 L.1 1.3 11050 S' 1.4 54785 S 1.5 72 S L.3 t 1.6 878481 S 1.7 8 S L.5 A 1.8 555 S L.3 1.9 6479 S' 1.10 240 S
 - 8 S LS AND L6
- 6479 S TRANSFERRIN?/TI 555 S L3 AND L6 NOT L7
- 240 S L8 AND L9
- 8838 S L3 NOT RECEPTOR 3
 - **385 S L11 AND L6 NOT L5**
- 147 S L12 AND 1960-1990/ PY

- 1 → VPDKTVRWCAVSRQEP 1 VPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPSVACVKKA SYLDCIRALAANEADAVTI.CAGLVYDAYLAPINLKPVVAEFYGS 型田田田
 - 9 VPDKTVRWCAVSEHEATKCOSFRDHMKSVIPSDGPSVACVKKA KEDPQTFYYAVAVVKKDSGFQMNQLRGKKKSCHTGLGRSAGW N IPIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTDFPQLCQ LCPGCGCSTLNEYFGYSGAFKCLKDGAG/SQEP ES
- PIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTDFPQLCQLC SYLDCIRAIAANEADAVTLDAGLVYDAYLAPINILKPVVAEFYGS KEDPQTFYYAVAVVKKDSGFQMNQLRGKKSCHTGLGRSAGWN 2 VPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPSVACVKKA PGCGCSTLNEYFGYSGAFKCLKDGAG/SQEP E6
- SYLDCIRAIAANEADAVTLDARLVYDAYLAPNNLKPVVAEFYGS KEDPQTFYYAVAVVKKDSGFQMNQLRGKKSCHTGLGRSAGWN **VPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPSVACVKKA** PIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTDFPQLCQLC SYLDCIRAIAANEADAVTLSAGLVYDAYLAPINILKPVVAEFYG PGCGCSTLNEYFGYSGAFKCLKDGAG/SQEP E3
- 1 VPDKVDSYVWQTSTNPSVFWTEGNAPPRIMSIPFLSIGNAYSNFY **DGWSEFSRNGVYGINTLNNMGTLYARHVNTGSTGPIKSTIRIY** FKPKHVKAWIPRPRLCQYEKAKNVNFQPSGVTTTRQSITTM OLCPGCGCSTLNEYFGYSGAFKCLKDGAG/SQEP INTGA/SQEP 8

WNIPIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTDFPQLC SKEDPQTFYYAVAVVKKDSGFQMNQLRGKKSCHTGLGRSAG

- 1 VPDL/SOEP 3
- E10 1 VPDLCSHLGLAVRAVRLRRGWSQELLSEKSGLDRTYVSGLER
- SGDTVPQSILTKSRSVIEQGGIQTVDQLIKELPELLQRNREILD ESLRLLDEEEATDNDLRAKFKERWQRTPSNELYKPLRAEGT NFRTVLDKAVQADGQVKECYQSHRDTIVL/SQEP GRRNPALLTLARLADALEVPLSELIRDAEENSGALYL/SQEP E11 1 VPDLKDIDPIGKATLVKSTPVNVPISQKFTDLFEKMVPVSVQQS LAAYNQRKADLVNRSIAQMREATTLANGVLASLNLPAAIEDV
 - E12 1 VPDLRTDQPKPPSKKRSCD/SQEP
- Nucleic acids and their encoded proteins for thera PY and diagnosis of human ANSWER I OF 11 CA COPYRIGHT2001 ACS lung cancer
- ΡY Expressed sequence tags and encoded human proteins ANSWER 2 OF 11 CA COPYRIGHT2001 ACS 3 F

2000

ANSWER 3 OF 11 CA COPYRIGHT2001 ACS 2

- Recombinant transferrins, transferrin half-molecules, and mutants thereof with improved iron-binding properties PY
- ANSWER 4 OF 11 CA COPYRIGHT2001 ACS
- therapeutic and diagnostic uses pY 1996 1998 1996 1996 2000 1998 1998 1999 2000 Chimeric proteins for use in transport of a selected substance into cells and their 3 =
- Transgenic animal expressing a human transferrin gene for use in the evaluation of reatments for pathogens binding transferrin PY 1994 1994 1994 L2 ANSWER 5 OF 11 CA COPYRIGHT2001 ACS TI Transgenic animal expressing a human transferrin i
- ANSWER 6 OF 11 CA COPYRIGHT2001 ACS A cloned gene for human transferrin PY 1991 3 =
- Recombinant transferrins, transferrin half-molecules, and mutants thereof ANSWER 7 OF 11 CA COPYRIGHT2001 ACS 1992 1992 1995 1996 7 E

ΡY

- ANSWER 8 OF 11 CA COPYRIGHT2001 ACS
- 8 ΡY Cloning and sequencing of a cDNA for human transferrin 42
- Human transferrin: cDNA characterization and chromosomal localization PY 1984 35

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ANSWER 9 OF 11 CA

The primary structure of human serum transferrin. The structures of seven ΡY cyanogen bromide fragments and the assembly of the complete structure ANSWER 10 OF 11 CA COPYRIGHT2001 ACS 72

1983

- 1982 ANSWER 11 OF 11 CA COPYRIGHT2001 ACS 35
 - The complete amino acid sequence of human serum transferrin PY
- ANSWER 6 OF 11 CA COPYRIGHT2001 ACS AN 119:21679 CA 2
- AU Hershberger, C. L.; Larson, J. L.; Arnold, B.; Rosteck, P. R., Jr.; TI A cloned gene for human transferrin
- Williams, P.; DeHoff, B.; Dunn, P.; O'Neal, K. L.; Riemen, M. W.; et al. CS Lilly Res. Lab., Eli Lilly and Co., Indianapolis, IN, 46285, USA
- cloned and the recombinant plasmid, pHDM99 was subsequently expressed SO Ann. N. Y. Acad. Sci. (1991), 646(Recomb. DNA Technol. I), 140-54 AB To obtain large quantities of transferrin the human gene (trf) was CODEN: ANY AA9; ISSN: 0077-8923 DT Journal LA English
- product in the lon and htpR strain, L201; suggesting that proteolysis exerts a in Escherichia coli. Sequences revealed that pHDM99 contained the coding mature protein, a 173-bp 3'-untranslated sequence ending with a polyH and sequence for the entire transferrins protein including the signal peptide and lambda. promoter PL described the expression of dramatically different amts. of transferrin in different E. coli strains with the highest level of a 78-bp 5'-untranslated sequence. A vector contg. trf and the phage major influence on transferrin accumulation.
 - Gene, animal CT Transferrins Escherichia coli Deoxyribonucleic acid sequences Molecular cloning Protein sequences Plasmid and Episome
- ANSWER 8 OF 11 CA COPYRIGHT2001 ACS 77
 - AN 116:35632 CA
- TI Cloning and sequencing of a cDNA for human transferrin IN Bowman, Barbara H.; Yang, Funmei
- English FAN.CNT DATE PATENT NO. KIND DATE APPLICATION NO. PA University of Texas System, USA SO U.S., 9 pp. CODEN: USXXAM DT Patent LA
- A 19910625 US 1985-727335 19850425 PI US 5026651
- in recombinant manuf. of the protein. The cDNA was cloned from a cDNA AB A cDNA encoding human transferrin is cloned and sequenced for use bank using amino acid sequence-derived oligonucleotide probes for screening.

L2 ANSWER 9 OF 11 CA COPYRIGHT2001 ACS AN 101:66961 CA TI Human transferrin: cDNA characterization and chromosomal

- localization
- AU Yang, Funmei; Lum, J. B.; McGill, John R.; Moore, Charleen M.; Naylor, Susan L.; Van Bragt, Peter H.; Baldwin, W. David; Bowman, Barbara H.
- CS Health Sci. Cent., Univ. Texas, San Antonio, TX, 78284, USA
- SO Proc. Natl. Acad. Sci. U. S. A. (1984), 81(9), 2752-6 CODEN:
- AB Transferrin (Tf) is the major iron-binding protein in vertebrate serum. PNASA6; ISSN: 0027-8424 DT Journal LA English
- human cDNA encoding Tf were isolated by screening an adult human liver characterization of the Tf gene by identifying and characterizing its cDNA lactotransferrin, ovotransferrin, melanoma antigen p97, and HuBlym-1. chromosome 3. The goal of the study described here was to initiate the and mapping its chromosomal location. Recombinant plasmids contg. Antigen p97 and the Tf receptor genes have been mapped on human It shares homologous amino acid sequences with 4 other proteins:

library with a mixed oligonucleotide probe. Within the 2.3 kilobase pairs of

- anal. indicate that the Tf gene is located at q21-25 on human chromosome homologous amino and carboxyl domains. During evolution, 3 areas of the homologous amino and carboxyl domains have been strongly conserved; 3, consistent with linkage of the Tf, Tf receptor, and melanoma p97 loci. Chromosomal mapping by in situ hybridization and somatic cell hybrid Tf cDNA analyzed, there is a probable leader sequence encoded by 57 this possible reflects functional constraints assocd. with Fe binding. nucleotides that is followed by 2037 nucleotides that encode the
- L7 ANSWER 1 OF 8 CA COPYRIGHT2001 ACS TI Effects of natural selection on patterns of DNA se
- Effects of natural selection on patterns of DNA sequence variation at the transferrin, somatolactin, and p53 genes within and among chinook salmon (Oncorhynchus tshawytscha) populations PY 2000
- L7 ANSWER 2 OF 8 CA COPYRIGHTZUUI ACS
 TI Novel methods for therapeutic vaccination PY 2000 2000 2000 ANSWER 2 OF 8 CA COPYRIGHT2001 ACS
- L7 ANSWER 3 OF 8 CA COPYRIGHT2001 ACS
 TI Neisseria meningitidis expressing transferrin binding proteins of Actinobacillus pleuropneumoniae can utilize porcine transferrin for growth PY 2000
- L7 ANSWER 4 OF 8 CA COPYRIGHT2001 ACS
 TI Recombinant transferrins, transferrin half-molecules, and *mutants** thereof with improved iron-binding properties PY 1999
- L7 ANSWER 5 OF 8 CA COPTRIGHT 2001 ACC
 TI Diagnosis of genetic disease arising from frameshift "mutation" by RT-PCR and
 TI Diagnosis of genetic disease arising from frameshift "mutation" by RT-PCR and defective mRNA PY 1998 1999 1998 2000
- Recombinant transferrins, transferrin half-molecules, and *mutants** L7 ANSWER 6 OF 8 CA COPYRIGHT2001 ACS TI Recombinant transferrins, transferrin half-molecul PY 1992 1992 1995 1996

thereof

ANSWER 7 OF 8 CA COPYRIGHT2001 ACS
Novel recombinant human lymphotoxin with enhanced cytotoxicity 71

1989

ΡY

- L7 ANSWER 8 OF 8 CA COPYRIGHT2001 ACS
 TI The structure of the expressible VH gene from a hybridoma producing 1990 1990 1999 1992
- L7 ANSWER 4 OF 8 CA COPYRIGHT2001 ACS AN 131:347495 CA

monoclonal antibodies against porcine transferrin PY

- Recombinant transferrins, transferrin half-molecules, and *mutants** TI Recombinant transferrins, transferrin half-thereof with improved iron-binding properties
 - Funk, Walter D.; MacGillivray, Ross T. A.; Mason, Anne B.; Woodworth, Robert C. Z
- The University of Vermont and State Agricultural College, USA; PA The University of Vermont University of British Columbia
 - SO U.S., 26 pp., Cont.-in-part of U.S. Ser. No. 832,029, abandoned. CODEN: USXXAM DT Patent LA English FAN.CNT 2
 - PATENT NO. KIND DATE APPLICATION NO. DATE
- 19920206 A 19991116 US 1993-175158 19931228 PRAI US 1991-652869 19910208 US 1992-832029 US 5986067 RE.CNT 24 RE Ы
 - (1) Adrian, G; Gene 1986, V49, P167 CA

- (2) Aldred, A; Biochem Biophys Res Commun 1984, V122(3), P960 CA
 (3) Anon; EP 0307247 1989 CA
 (4) Anon; EP 0309787 1989 CA
 (6) Baumstark, J; J Biochem Biophys Methods 1987, V14(2), P59 CA
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- Utilization of *transferrin** -bound iron by Haemophilus influenzae requires an COPYRIGHT2001 ACS ANSWER 101 OF 240 CA intact tonB gene PY 1995 017 F
- CA COPYRIGHT2001 ACS **ANSWER 102 OF 240** 20
- Siderophore-mediated utilization of iron bound to "transferrin" by Vibrio parahaemolyticus PY 1994
- COPYRIGHT2001 ACS S ANSWER 103 OF 240 20
- Iron release from *transferrin* by PY overdin and elastase from Pseudomonas aeruginosa PY 1994
- <u>8</u> PY L10 ANSWER 104 OF 240 CA COPYRIGHT2001 ACS
 TI Polymorphism in the coding sequence of the horse *transferrin* gene
- L10 ANSWER 105 OF 240 CA COPYRIGHT2001 ACS
- 1 Serum 2Y 1994 PY Characterization and Structural Analysis of a Functional Human *Transferrin* Variant and Implications for Receptor Recognition
- Gonococcal *transferrin** -binding protein 2 facilitates but is not essential for ANSWER 106 OF 240 CA COPYRIGHT2001 ACS transferrine utilization PY 1994 L10
- ANSWER 107 OF 240 CA COPYRIGHT2001 ACS 20
- Effect of *transferrin*, lactoferrin and chelated iron on human T-lymphocytes PY
- L10 ANSWER 108 OF 240 CA COPYRIGHT2001 ACS TI Elimination of the O-linked glycosylation site at Thr 10
- Elimination of the O-linked glycosylation site at Thr 104 results in the generation of a soluble human- *transferrin* receptor PY 1994
- L10 ANSWER 109 OF 240 CA COPYRIGHT2001 ACS
 TI Preparation of *transferrin*-independent, B lymphocytes-derived cell lines PY
- L10 ANSWER 110 OF 240 CA COPYRIGHT2001-ACS
- neuraminidase and human *transferrin* receptor, type II transmembrane proteins PY T1 Analysis of the signals for polarized transport of influenza virus (A/WSN/33) 8
- ANSWER 111 OF 240 CA COPYRIGHT2001 ACS

 Transferrin in the central nervous system of the shiverer mouse myelin ΡY L10 ANSWE T1 *Transfer *mutant**
- LIO ANSWER 112 OF 240 CA COPYRIGH12001 ACS
 TI A C/EBP-binding site in the *transferrin* promoter is essentia for expression in the liver but not the brain of transgenic mice PY 1993
- TI Effect of certain. --

L10 ANSWER 128 OF 240 CA COPYRIGHT2001 ACS

Effect of certain *substituted* biurets on the binding of DNA to N-acylurea

L10 ANSWER 127 OF 240 CA COPYRIGHT2001 ACS

- cycle. *Transferrin* receptor antibody blocks erythroid differentiation by trapping the Characterization of early and late endocytic compartments of the *transferrin* receptor in the early endosome PY 1992
- L10 ANSWER 129 OF 240 CA COPYRIGHT2001 ACS

- II YTRF is the conserved internalization signal of the "transferrin" receptor, and L10 ANSWER 113 OF 240 CA COPYRIGHT2001 ACS
 - 1993 second YTRF signal at position 31-34 enhances endocytosis

*transferrin

TI Structural requirements for high efficiency endocytosis of the human

L10 ANSWER 130 OF 240 CA COPYRIGHT2001 ACS

1992

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*Transferrin** -receptor-independent but iron-dependent proliferation of variant inese hamster ovary cells PY 1992

Chinese hamster ovary cells

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receptor PY 1992 The End2 *mutation* in CHO cells slows the exit of *transferrin* receptors from recycling compartment but bulk membrane recycling is unaffected PY 1993 L10 ANSWER 114 OF 240 CA COPYRIGHT2001 ACS

Ξ

- L10 ANSWER 131 OF 240 CA COPYRIGHT2001 ACS the recycling compartment but bulk membrane recycling is unaffected
- II New perspectives on the structure and function of *transferrins ** L10 ANSWER 115 OF 240 CA COPYRIGHT2001 ACS
- TI Preparation and analysis of isogenic "mutants" in the "transferrin" receptor 1993 protein genes, tbpA and tbpB, from Neissena meningitidis PY

TI The region of human *transferrin* involved in binding to bacterial *transferrin*

receptors is localized in the C-lobe PY 1993

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Asp ligand provides the trigger for closure of "transferrin" molecules. Direct evidence from x-ray scattering studies of site-specific "mutants" of the N-terminal

L10 ANSWER 117 OF 240 CA COPYRIGHT2001 ACS

F

- TI Monoclonal antibodies against defined epitopes of the human *transferrin* L10 ANSWER 132 OF 240 CA COPYRIGHT2001 ACS
 - receptor cytoplasmic tail PY 1992
- II Demonstration of an interaction between *transferrin* and lipopolysaccharide. CA COPYRIGHT2001 ACS L10 ANSWER 133 OF 240 in vitro study PY 199

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- CA COPYRIGHT2001 ACS ANSWER 134 OF 240 L10
- TI In vitro efficacy of *transferrin** -toxin conjugates against glioblastoma multiforme PY 1992
- L10 ANSWER 135 OF 240 CA COPYRIGHT2001 ACS
- Structure of the N-linked oligosaccharides of the human *transferrin* receptor
- L10 ANSWER 136 OF 240 CA COPYRIGHT2001 ACS
- 1992 ΡY TI *Transferrin* receptor expression in myelin deficient (md) rats

A region of the C-terminal portion of the human *transferrin* receptor contains an asparagine-linked glycosylation site critical for receptor structure and function PY1993

Calorimetric studies of the N-terminal half-molecule of "transferrin" and

L10 ANSWER 118 OF 240 CA COPYRIGHT2001 ACS

half-molecule of human *transferrin** PY 1993

mutant forms modified near the iron(3+)-binding site PY

L10 ANSWER 119 OF 240 CA COPYRIGHT2001 ACS

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Expression and loss of the "transferrin" receptor in growing and differentiating

TI Expression and los HD3 cells PY 1993

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L10 ANSWER 121 OF 240 CA COPYRIGHT2001 ACS
TI Liver-enriched HNF-3.alpha. and ubiquitous factors interact with the human

PY 1993

- L10 ANSWER 137 OF 240 CA COPYRIGHT2001 ACS
- Effect of *transferrin*, lactoferrin and chelated iron on human T-lymphocytes ᅜᄺ
- L10 ANSWER 138 OF 240 CA COPYRIGHT2001 ACS
- TI Loss of one asparagine-linked oligosaccharide from human *transferrin* receptors
 TI Loss of one asparagine-linked oligosaccharide from human *transferrin* PY 1992
- L10 ANSWER 139 OF 240 CA COPYRIGHT2001 ACS
- receptors between the plasma membrane and endosomes containing *transferrin* TI Ligand-regulated internalization and recycling of human .beta.2-adrenergic receptors PY 1992

Gonococcal *transferrin*-binding protein 1 is required for *transferrin* utilization

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L10 ANSWER 122 OF 240 CA *transferrin* gene enhancer

Ξ

and is homologous to TonB-dependent outer membrane receptors PY

L10 ANSWER 123 OF 240 CA COPYRIGHT2001 ACS IT The internalization signal and the phosphorylation site distinct from the main basolateral sorting information PY

1992

- L10 ANSWER 140 OF 240 CA COPYRIGHT2001 ACS
- TI Structural-functional studies of human *transferrin* by using in vitro mutagenesis PY 1991 The internalization signal and the phosphorylation site of "transferrin" receptor are
- TI Efficient production and isolation of recombinant amino-terminal half-molecule of human serum *transferrin* from baby hamster kidney cells PY 1991 L10 ANSWER 141 OF 240 CA COPYRIGHT2001 ACS

L10 ANSWER 124 OF 240 CA COPYRIGHT2001 ACS

TI Expression of glycosylated and nonglycosylated human *transferrin** in mammalian cells. Characterization of the recombinant proteins with comparison to

- L10 ANSWER 142 OF 240 CA COPYRIGHT2001 ACS
- gene enhancer and purification of two liver nuclear factors interacting with the TGTTTGC motif present, Characterization of the active part of the human *transferrin** 1991 in this region
- L10 ANSWER 143 OF 240 CA COPYRIGHT2001 ACS

b

II Role of oligosaccharides in the processing and function of human *transfernin* receptors. Effect of the loss of the three N-glycosyl oligosaccharides individually or

L10 ANSWER 125 OF 240 CA COPYRIGHT2001 ACS

three commercially available *transferrins** PY 1993

omutants of the N-II Expression and initial characterization of five site-directed terminal half-molecule of human *transferrin ** PY 1991

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TI Production of N-terminal and C-terminal human serum *transferrin**

Escherichia coli PY 1993

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PY 1993

together

- L10 ANSWER 144 OF 240 CA COPYRIGHT2001 ACS
- II Purification and partial sequencing of saxiphilin, a saxitoxin-binding protein from the builfrog, reveals homology to "transferrin" PY 1991
- L10 ANSWER 145 OF 240 CA COPYRIGHT2001 ACS
- TI *Mutational* analysis of the cytoplasmic tail of the human *transferrin* receptor. Identification of a sub-domain that is required for rapid endocytosis PY
- L10 ANSWER 146 OF 240 CA COPYRIGHT2001 ACS

TI A *mutated* *transferrin* receptor lacking asparagine-linked glycosylation sites shows reduced functionality and an association with binding immunoglobulin protein

ΡY ANSWER 147 OF 240 CA COPYRIGHT2001 ACS
Proton NMR studies on lanthanides *substituted** *transferrins** 2

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L10 ANSWER 148 OF 240 CA COPYRIGHT2001 ACS

II Isolation and characterization of a *mutant* of Neisseria gonorrhoeae that is defective in the uptake of iron from *transferrin* and hemoglobin and is avirulent in mouse subcutaneous chambers PY 1991

ANSWER 149 OF 240 CA COPYRIGHT2001 ACS 200

Expression of *transferrin* mRNA in the CNS of normal and jimpy mice PY 1991

) ANSWER 150 OF 240 CA COPYRIGHT2001 ACS
Uptake and intracellular distribution of iron from *transferrin** and chelators in 2

LIO ANSWER 151 OF 240 CA COPYRIGHT2001 ACS erythroid cells PY 1990

Mechanism of transcriptional and translational regulation of "transferrin" and *transferrin* receptor gene PY 1990

Development of a protein-free medium with ferric citrate *substituting* 8 *transferrin* for the cultivation of mouse-mouse hybridomas PY ANSWER 152 OF 240 CA COPYRIGHT2001 ACS

Isolation and characterization of Haemophilus influenzae type b *mutants* 199 defective in *transferrin** -binding and iron assimilation PY ANSWER 153 OF 240 CA COPYRIGHT2001 ACS

LIO ANSWER 154 OF 240 CA COPYRIGHT2001 ACS TI Mutagenesis of the human *transferrin* receptor: two

Mutagenesis of the human *transferrin* receptor: two cytoplasmic phenylalanines required for efficient internalization and a second-site *mutation* is capable of reverting an internalization-defective phenotype PY 1991 are

Potent cytotoxicity of an antihuman *transferrin* receptor-ricin A-chain L10 ANSWER 155 OF 240 CA COPYRIGHT2001 ACS

immunotoxin on human glioma cells in vitro PY 1990

L10 ANSWER 156 OF 240 CA COPYRIGHT2001 ACS

associated with the covalent modification of the "transferrin" receptor with palmitic Inhibition of the receptor-mediated endocytosis of diferric *transferrin* is acid PY 1990 Ε

TI Genetic evidence that Neisseria gonorrhoeae produces specific receptors for *transferrin* and lactoferrin PY 1990 L10 ANSWER 157 OF 240 CA COPYRIGHT2001 ACS

Site-specific rate constants for iron removal from difernic *transferrin* by nitrilotris(methylenephosphonic acid) and pyrophosphate PY L10 ANSWER 158 OF 240 CA COPYRIGHT2001 ACS

L10 ANSWER 159 OF 240 CA COPYRIGHT2001 ACS
TI Nonacylated human *transferrin* receptors are rapidly internalized and mediate iron uptake PY

dependent upon an Human *transferrin* receptor internalization is partially aromatic amino acid on the cytoplasmic domain PY 1990 L10 ANSWER 160 OF 240 CA COPYRIGHT2001 ACS

Structural requirements of iron-responsive elements for binding of the protein involved in both *transferrin* receptor and ferritin mRNA post-transcriptional L10 ANSWER 161 OF 240 CA COPYRIGHT2001 ACS regulation PY

TI A point *mutation* in the cytoplasmic domain of the *transferrin* receptor inhibits endocytosis PY 1990 L10 ANSWER 162 OF 240 CA COPYRIGHT2001 ACS

L10 ANSWER 163 OF 240 CA COPYRIGHT2001 ACS
T1 A comparison of the structure and properties of normal human *transferrin* and a genetic variant of human *transferrin** PY 1990

Characterization of a *transferrin** -independent uptake system for iron in HeLa L10 ANSWER 164 OF 240 CA COPYRIGHT2001 ACS TI Characterization of a *transferrin** -independent untak

cells PY 1990

Role of the human "transferrin" receptor cytoplasmic domain in endocytosis: localization of a specific signal sequence for internalization PY 1990 L10 ANSWER 165 OF 240 CA COPYRIGHT2001 ACS TI Role of the human *transferrin* receptor cytoplasmic d

for making a serum L10 ANSWER 166 OF 240 CA COPYRIGHT2001 ACS
TI Use of two human proteins, albumin and *transferrin***, for
substitute adapted for monoclonal antibody production PY

II The development of the *transferrin* - *transferrin* receptor system in relation to astrocytes, MBP and galactocerebroside in normal and myelin-deficient rat optic L10 ANSWER 167 OF 240 CA COPYRIGHT2001 ACS nerves PY 1989

1989 ΡY L10 ANSWER 168 OF 240 CA. COPYRIGHT2001 ACS
TI Expression from the *transferrin* gene promoter in transgenic mice

Schistosoma mansoni: effect of *transferrin* and growth factors on development ANSWER 169 OF 240 CA COPYRIGHT2001 ACS 1989 of schistosomula in vitro PY L10,

1989 PY L10 ANSWER 170 OF 240 CA COPYRIGHT2001 ACS TI Hemolyzates reduce iron released from "transferrin"**

II A splicing defect in the mouse "transferrin" gene leads to congenital L10 ANSWER 171 OF 240 CA COPYRIGHT2001 ACS atransferrinemia PY 1989

ANSWER 172 OF 240 CA COPYRIGHT2001 ACS 20

TI Intermolecular disulfide bonds are not required for the expression of the dimeric state and functional activity of the *transferrin** receptor PY 1989

A growth-promoting factor for human myeloid leukemia cells from horse serum L10 ANSWER 173 OF 240 CA COPYRIGHT2001 ACS identified as horse serum *transferrin* PY 1989

Damage of the outer membrane of enteric Gram-negative bacteria by lactoferrin L10 ANSWER 174 OF 240 CA COPYRIGHT2001 ACS and *transferrin** PY 1988

1988 L10 ANSWER 175 OF 240 CA COPYRIGHT2001 ACS
TI Nucleotide sequence of porcine liver *transferrin** PY

II A role for the cytoplasmic domain in "transferrin" receptor sorting and coated pit L10 ANSWER 176 OF 240 CA COPYRIGHT2001 ACS formation during endocytosis PY 1988

1988 ΡY Characterization of the amino acid change in a *transferrin** variant L10 ANSWER 177 OF 240 CA COPYRIGHT2001 ACS TI Characterization of the amino acid change in a *transfe

II A stem-loop in the 3' untranslated region mediates iron-dependent regulation of *transferrin* receptor mRNA stability in the L10 ANSWER 178 OF 240 CA COPYRIGHT2001 ACS

receptor Phorbol ester treatment increases the exocytic rate of the *transferrin* 1988 ΡY recycling pathway independent of serine-24 phosphorylation L10 ANSWER 179 OF 240 CA COPYRIGHT2001 ACS

TI Deletional analysis of the promoter region of the human *transferrin* receptor gene PY 1988 L10 ANSWER 180 OF 240 CA COPYRIGHT2001 ACS

LIO ANSWER 181 OF 240 CA COPYRIGHT2001 ACS
TI Endocytosis of the *transferrin* receptor requires the cytoplasmic domain but not its phosphorylation site PY 1987

L10 ANSWER 182 OF 240 CA COPYRIGHT2001 ACS
T1 Isolation by streptonigrin enrichment and characterization of a

•transferrin••

specific iron uptake *mutant* of Neisseria meningitidis PY

L10 ANSWER 183 OF 240 CA COPYRIGHT2001 ACS
TI Structure and methylation state of the human *transferrin* receptor gene:

preliminary analysis on tumor cell lines, primary tumors and some normal tissues PY

TI Regional variation in the levels of *transferrin* in the CNS of normal and myelin-L10 ANSWER 184 OF 240 CA COPYRIGHT2001 ACS deficient rats PY 1987

TI Regulation of *transferrin* receptor cycling by protein kinase C is independent of receptor phosphorylation at serine 24 in Swiss 3T3 fibroblasts PY 1987 L10 ANSWER 185 OF 240 CA COPYRIGHT2001 ACS

protein kinase C is not 1987 L10 ANSWER 186 OF 240 CA COPYRIGHT2001 ACS TI Phosphorylation of the human *transferrin* receptor by prot required for endocytosis and recycling in mouse 313 cells PY

II Replacement of *transferrin* in serum-free cultures of mitogen-stimulated mouse lymphocytes by a lipophilic iron chelator PY 1987 L10 ANSWER 187 OF 240 CA COPYRIGHT2001 ACS

TI Identification of the intermolecular disulfide bonds of the human "transferrin" L10 ANSWER 188 OF 240 CA COPYRIGHT2001 ACS receptor and its lipid-attachment site PY 1987

vesicular stomatitis virus membrane glycoprotein exocytosis by ultrastructural double-TI Comparison of the intracellular pathways of "transferrin" recycling and L10 ANSWER 189 OF 240 CA COPYRIGHT2001 ACS label cytochemistry PY 1987

1986 *Transferrin** -mediated transcellular transport of iron-59 across confluent epithelial sheets of Sertoli cells grown in bicameral cell culture chambers L10 ANSWER 190 OF 240 CA COPYRIGHT2001 ACS

Selection and characterization of "transferrin" receptor "mutants" using receptor-L10 ANSWER 191 OF 240 CA COPYRIGHT2001 ACS specific antibodies PY 1986

Determination of ultrafiltrable zinc, *transferrin* bound and albumin bound zinc L10 ANSWER 192 OF 240 CA COPYRIGHT2001 ACS using ultrafiltration and flameless A.A.S PY 1985 F

TI The transmembrane segment of the human *transferrin* receptor functions as a COPYRIGHT2001 ACS L10 ANSWER 193 OF 240 CA signal peptide PY 1986 L10 ANSWER 194 OF 240 CA COPYRIGHT2001 ACS
TI Molecular genetics of *transferrin** : chromosomal localization and individual variation of the gene PY 1985

.5 Evidence that *transferrin* may function exclusively as an iron donor L10 ANSWER 195 OF 240 CA COPYRIGHT2001 ACS promoting lymphocyte proliferation PY 1986

TI Electron spin resonance and magnetic relaxation studies of gadolinium(III) L10 ANSWER 196 OF 240 CA COPYRIGHT2001 ACS complexes with human *transferrin** PY 1986

TI A *transferrin* receptor antibody represents one signal for the induction of LL 2 production by a human T cell line PY 1986 L10 ANSWER 197 OF 240 CA COPYRIGHT2001 ACS

- L10 ANSWER 198 OF 240 CA COPYRIGHT2001 ACS
 TI Magnetic relaxation of solvent protons by copper(2+)- and dioxovanadium(2+)- *
 eubstituted *transferrin**: theoretical analysis and biochemical implications PY
- L10 ANSWER 199 OF 240 CA COPYRIGHT2001 ACS
 TI Inhibition of cell growth by monoclonal anti. * *transferrin*** receptor antibodies

γ

Effects of siderophores on the growth of Pseudomonas aeruginosa in human serum L10 ANSWER 200 OF 240 CA COPYRIGHT2001 ACS

and *transferrin** PY 1985

- CA COPYRIGHT2001 ACS L10 ANSWER 201 OF 240
- *Transferrin* variants in Tuscany (Italy) Evidence for two "new" Tf alleles PY 20
- 1984) ANSWER 202 OF 240 CA COPYRIGHT2001 ACS Comparison of bovine serum *transferrin* A and D2. II. Glycopeptides PY
 - Amino acid residue L10 ANSWER 203 OF 240 CA COPYRIGHT2001 ACS TI Comparison of bovine serum *transferrin* A and D2. I. differences PY 1984
- Studies on equine *transferrin* I. The isolation and partial characterization of L10 ANSWER 204 OF 240 CA COPYRIGHT2001 ACS the D and R variants PY 1985
- receptor antibody: evidence L10 ANSWER 205 OF 240 CA COPYRIGHT2001 ACS Selection of cell lines resistant to anti- * *transferrin* for a *mutation* in *transferrin** receptor PY 1984
- Effect of insulin and *transferrin* in the maintenance of the activated state of the COPYRIGHT2001 ACS T-lymphocyte induced by allo-antigen PY 1984 L10 ANSWER 206 OF 240 CA
 - The relationships of cartilaginous fishes: an immunological study of serum L10 ANSWER 207 OF 240 CA COPYRIGHT2001 ACS
- Failure to release iron from *transferrin* in a Chinese hamster ovary cell *mutant* 1984 L10 ANSWER 208 OF 240 CA COPYRIGHT2001 ACS *transferrins* of holocephalans and elasmobranchs PY
- insulin to stimulate 1983 ತ್ತ TI Multiplication-stimulating activity (MSA) can *substitute* if the secretion of testicular *transferrin* by cultured Sertoli cells L10 ANSWER 209 OF 240 CA COPYRIGHT2001 ACS TI Multiplication-stimulating activity (MSA) can *substitute* pleiotropically defective in endocytosis PY 1984
- TI *Transferrin* receptor induction in mitogen-stimulated human T lymphocytes is required for DNA synthesis and cell division and is regulated by interleukin 2 PY 1983 L10 ANSWER 210 OF 240 CA COPYRIGHT2001 ACS
- ΡY Thallium-205 as an NMR probe for the investigation of *transferrin** L10 ANSWER 211 OF 240 CA COPYRIGHT2001 ACS

1983

- eucaloric diets on serum concentrations of retinol-binding protein, thyroxine-binding Effects of carbohydrate-containing and carbohydrate-restricted hypocaloric and L10 ANSWER 212 OF 240 CA COPYRIGHT2001 ACS prealbumin and *transferrin** PY 1983
- 1982 ΡY The kinetics of interaction of copper(II) species with apo *transferrin* L10 ANSWER 213 OF 240 CA COPYRIGHT2001 ACS
- 1981 ΡY The origin of the visible absorption in metal *transferrins** L10 ANSWER 214 OF 240 CA COPYRIGHT2001 ACS
- L10 ANSWER 215 OF 240 CA COPYRIGHT2001 ACS
- Polymorphism of "transferrin" locus in horses: immunochemical evidence of two structurally different subgroups of the allelic proteins PY 1981 F

- ANSWER 216 OF 240 CA COPYRIGHT2001 ACS
 Can indium-113m be used to measure the transcapillary escape rate of *transferrin**? PY 1981 S
- Receptor-mediated endocytosis of *transferrin* in developmentally totipotent CA COPYRIGHT2001 ACS mouse teratocarcinoma stem cells PY 1981 L10 ANSWER 217 OF 240
-) ANSWER 218 OF 240 CA COPYRIGHT2001 ACS Characterization of *transferrin* metal-binding sites by diffusion-enhanced energy 2
- TI Characterization transfer PY 1980
- *Transferrin** -dependent growth inhibition of yeast-phase Histoplasma ANSWER 219 OF 240 CA COPYRIGHT2001 ACS II "Transferrin""-dependent growth inhibition of capsulatum by human serum and lymph PY 1980
- 086 1 *transferrin* PY Binding of iron from nitrilotriacetate analogs by human ANSWER 220 OF 240 CA COPYRIGHT2001 ACS 20
- L10 ANSWER 221 OF 240 CA COPYRIGHT2001 ACS
 TI *Transferrin* can replace serum for in vitro growth of mitogen-stimulated T lymphocytes PY 1979
- Kinetics of the specific binding of iron(III) nitrilotriacetate to human apo-L10 ANSWER 222 OF 240 CA COPYRIGHT2001 ACS
- 1979 ΡY L10 ANSWER 223 OF 240 CA COPYRIGHT2001 ACS
 TI The reduction and release of iron from Fe3+. * *transferrin**. CO32.
- TI Control of cloning of normal human T lymphocytes by *transferrin**, albumin L10 ANSWER 224 OF 240 CA COPYRIGHT2001 ACS and different lectins PY 1978
- 1977 PY II Iron removal from *transferrin**. An experimental study ANSWER 225 OF 240 CA COPYRIGHT2001 ACS
- The role of the anion binding site in the binding of iron by serum *transferrin* PY ANSWER 226 OF 240 CA COPYRIGHT2001 ACS L 10
- Effect of adenine nucleotides and PYrophosphate on the exchange of L10 ANSWER 227 OF 240 CA COPYRIGHT2001 ACS 1975 *transferrin** -bound carbonate PY
- Amino acid sequences of three cystine-free cyanogen-bromide fragments of L10 ANSWER 228 OF 240 CA COPYRIGHT2001 ACS TI Amino acid sequeines of the human serum *transferrin** PY 1975
- Resonance Raman scattering from iron(III)- and copper(II)- *transferrin* and an iron(III) model compound. Spectroscopic interpretation of the "transferrin" binding L10 ANSWER 229 OF 240 CA COPYRIGHT2001 ACS PY site
- L10 ANSWER 230 OF 240 CA COPYRIGHT2001 ACS TI Anion binding site of *transferrin** PY 1973 TI Anion binding site of *transferrin**
- II Significance of *transferrin** -bound bicarbonate in the uptake of iron by L10 ANSWER 231 OF 240 CA COPYRIGHT2001 ACS reticulocytes PY 1973
- Role of the anion-binding site of *transferrin* in its interaction with the L10 ANSWER 232 OF 240 CA COPYRIGHT2001 ACS reticulocyte PY 1973
- 1972 δ TI Zero-field splittings of iron complexes of "transferrins". L10 ANSWER 233 OF 240 CA COPYRIGHT2001 ACS
- L10 ANSWER 234 OF 240 CA COPYRIGHT2001 ACS

- *transferrin**, 1970 Genetic determination of the serum II Blood groups of pigs. IV. Genetic determination of the se prealbumin, hemopexin, ceruloplasmin, and amylase variants
- 1970 ΡY Physicochemical properties of "transferrins" in brook trout L10 ANSWER 235 OF 240 CA COPYRIGHT2001 ACS
- Nuclear magnetic relaxation dispersion in protein solutions. II. *Transferrin* PY L10 ANSWER 236 OF 240 CA COPYRIGHT2001 ACS 6961
- 1961 PY an amino acid difference L10 ANSWER 237 OF 240 CA COPYRIGHT2001 ACS TI Human *transferrins* C and DChi:
- 1968 ΡY ANSWER 238 OF 240 CA COPYRIGHT2001 ACS II *Transferrin* D(sub chi): amino acid *substitution** L10
- ANSWER 239 OF 240 CA COPYRIGHT2001 ACS L10
- II Structural studies of fragments resulting from cyanogen bromide degradation of human *transferrin** PY 1967
 - ΡY ANSWER 240 OF 240 CA COPYRIGHT2001 ACS
 Transferrin D1; identity in Australian aborigines and American Negroes L10 / TI *
- L10 ANSWER 117 OF 240 CA COPYRIGHT2001 ACS 119:111701 CA Ā
- molecules. Direct evidence from x-ray scattering studies of site-specific *mutants* of TI Asp ligand provides the trigger for closure of *transferrin** the N-terminal half-molecule of human *transferrin**
 - AU Grossmann, J. Guenter, Mason, Anne B.; Woodworth, Robert C.; Neu, SO J. Mol. Biol. (1993), 231(3), 554-8 CODEN: JMOBAK; ISSN: 0022-2836DT JournalLA English CS Mol. Biophys. Group, Daresbury Lab., Warrington, WA4 4AD, UK Margarete; Lindley, Peter F.; Hasnain, S. Samar
- that transferrins (serum transferrin, lactoferrin and ovotransferrin) undergo a iron is bound. The closed conformation has been suggested as an important AB Recent x-ray crystallog, and soln. x-ray scattering studies have shown the existence of a trigger mechanism for the closure of the interdomain cleft major conformational change when iron is incorporated into the mol. Apo-*mutated* N-terminal fragment of human serum transferrin with Asp63 -> Ser (Cys) are reported. The data provide the first direct exptl. evidence for step in the receptor recognition. Here, x-ray soln. scattering expts. of the and that this trigger mechanism is disrupted by *mutation* of Asp63, the proteins show a structure with open interdomain clefts which close when
- L10 ANSWER 118 OF 240 CA COPYRIGHT2001 ACS AN 119:111687 CA

only ligand of iron from domain I.

- TI Calorimetric studies of the N-terminal half-molecule of *transferrin* AU Lin, Lung Nan; Mason, Anne B.; Woodworth, Robert C.; Brandts, and *mutant* forms modified near the iron(3+)-binding site John F.
 - CS Dep. Chem., Univ. Massachusetts, Amherst, MA, 01003, USA S
 - SO Biochem. J. (1993), 293(2), 517-22 CODEN: BIJOAK; ISSN: 0306-3275 DT Journal LA English
- site-directed *mutations* studied (D63->S, D63->C, G65->R, H207->E and in free energy of unfolding relative to the wild-type protein range from 0.83 scanning calorimetry showed that the *mutations* do not significantly alter the conformational stability of the apo-forms of the proteins. The changes to -2.4 kJ/mol. The D63->S, G65->R and H207->E *mutations* slightly binding affinity were studied by high-sensitivity scanning calorimetry. stability of the N-terminal half-mol. of human transferrin and its iron-K206->Q) are located on the surface of the binding cleft. Differential AB The effects of single amino acid *substitutions* on the thermal

increase its stability by a small amt. However, there are large compensating apparent binding const. by 20-fold, while the H207->E *mutation* does not enthalpy-entropy changes caused by all *mutations**. All *mutants* bind magnitude. The G65->R *mutation* also decreases the apparent binding destabilize the apo-protein, while the D63->C and K206->Q *mutations* const. by 5 orders of magnitude. The K206->Q *mutation* increases the erric ion, but with different affinities. Replacement of Asp-63 by either significantly change the apparent iron-binding affinity of the half-mol. Ser or Cys decreases the apparent binding const. by 5-6 orders of

ANSWER 119 OF 240 CA COPYRIGHT2001 ACS

119:111605 CA

receptor contains an asparagine-linked glycosylation site critical for A region of the C-terminal portion of the human *transferrin** receptor structure and function

Williams, Anthony M.; Enns, Caroline A.

Dep. Cell Biol. Anat., Oregon Health Sci. Univ., Portland, OR, 97201-

SO J. Biol. Chem. (1993), 268(17), 12780-6 CODEN: JBCHA3; ISSN:

0021-9258 DT Journal LA English

localization and the transferrin binding of the transferrin receptor, indicating that glycosylation in this region is crit. for the correct transport of this glycosylation at either Asn251 or Asn317 do not affect the processing and surface localization of the receptor. Eliminating both of these sites together transfected stably into NIH-3T3 cells and a Chinese hamster ovary cell line receptor possesses three asparagine-linked oligosaccharides. The effect of has a small effect on the behavior of the receptor. However, *mutation* of The transferrin receptor is a cell surface protein and is responsible for directed mutagenesis. Each of the extracellular consensus sequences (Asneffect on the appearance of the receptor at the cell surface. The *mutants* lacking glycosylation at Asn727 appear to be retained in the endoplasmic unglycosylated *mutated** transferrin receptor restores the cell surface reticulum as an increased assocn. with binding Ig protein (BiP) is obsd. the C-terminal glycosylation site (Asn727) has the most profound neg. combinations of glycosylation sites, single *mutations** eliminating AB The transferrin receptor is a cell surface protein and is responsible the uptake of iron into many eukaryotic cells. In its mature form, the localization of the human transferrin receptor is examd. here by site-X-Ser/Thr) for asparagine-linked glycosylation was *mutated** individually and in all possible combinations. The constructs were asparagine-linked glycosylation on the processing and cell surface Addn. of a new glycosylation site in the C-terminal region of the lacking endogenous transferrin receptors. Of the seven possible receptor to the cell surface.

L10 ANSWER 140 OF 240 CA COPYRIGHT2001 ACS 116:53737 CA

II Structural-functional studies of human *transferrin* by using in vitro mutagenesis

CS Dep. Biochem, Univ. British Columbia, Vancouver, BC, W6T 1W5, Can SO Curr. Stud. Hematol. Blood Transfus. (1991), 58 (Biotechnol. Plasma Proteins), 132-8 CODEN: CSHTE8 Janet A; Mason, Anne B.; Woodworth, Robert C.; MacGillivray, Ross T. A. AU Chow, Billy K. C.; Funk, Walter D.; Banfield, David K.; Lineback,

Journal; General Review LA English

proteolytic digestion of transferrin isolated from serum. *Mutant** A review, with 12 refs. on expts. leading to the expression of fragments of human transferrin in baby hamster kidney cells. The recombinant protein behaves identically to the protein isolated by transferrin mols. should enable one to study structural-functional relationships in this protein.

ANSWER 163 OF 240 CA COPYRIGHT2001 ACS L10

AN 112:194062 CA TI A comparison of the structure and properties of normal human *transferrin* and a genetic variant of human *transferrin**

Dep. Biochem., London Hosp. Med. Coll., London, E1 2AD, UK Welch, Simon; Langmead, Louise

Int. J. Biochem. (1990), 22(3), 275-82 CODEN: IJBOBV; ISSN: CS Dep. Biochem., London Hosp. Me SO Int. J. Biochem. (1990), 22(3), 27. 0020-711X DT Journal LA English

were identical with respect to their mol. wts., heat stability, Fe uptake, and The Fe3+ bound to the C-site of TfBSHAW is unstable in the presence of isoleucine replaced by asparagine at either positions 378 or position 381. AB A rare genetic variant of human serum transferrin (TfBSHAW) is reported. Variant and normal transferrins were purified. The 2 proteins absorbance spectra. The amino acid *substitution* is thought to be protons or 6M urea.

L10 ANSWER 177 OF 240 CA COPYRIGHT2001 ACS

109:69108 CA

AU Evans, Robert W.: Meilak, Andrew; Aitken, Alastair, Patel, Kokila J.; TI Characterization of the amino acid change in a *transferrin ** variant Wong, Collin; Garratt, Richard C.; Chitnavis, Bhupal

SO Biochem. Soc. Trans. (1988), 16(5), 834-5 CODEN: BCSTB5; ISSN: Div. Biochemistry, Guy's Hosp., London, SE1 9RT, UK 0300-5127 DT Journal LA English S

AB The amino acid *substitution* was characterized in a variant of human PAGE in 6M urea. A glycine residue at position 394 of the normal protein serum transferrin which is unable to retain Fe in the C-terminal site on was replaced by arginine in the *mutant* protein.

L10 ANSWER 195 OF 240 CA COPYRIGHT2001 ACS

AN 104:128064 CA
TI Evidence that *transferrin* may function exclusively as an iron donor in promoting lymphocyte proliferation

AU Brock, J. H.; Mainou-Fowler, Tryfonia; Webster, Laura M.

CS Dep. Bacteriol. Immunol., Univ. Glasgow, Glasgow, G11 6NT, UK SO Immunology (1986), 57(1), 105-10 CODEN: IMMUAM, ISSN: 0019-2805 DT Journal LA English

when the protein was satd. only to 10%. Addn. of Mn to the latter, to bring Lymphocytes took up Fe preferentially when transferrin contg. both Fe and proliferation was inhibited by >80%, whereas the same transferrins satd, to nitriotriacetate were *substituted* for Fe-transferrin in serum-free medium, abnormal Fe-binding and receptor-binding properties was almost identical serum-free medium in the presence of a variant of human transferrin with proliferation was decreased by >95%. These results strongly suggest that investigated. Cells proliferated well when cultured in medium contg. 5% proliferation was greater in the presence of 30% Fe-satd, transferrin than transferrin promotes lymphocyte proliferation solely as a result of its Fe-AB In order to distinguish between a requirement for Fe and a possible 30% with Fe enhanced proliferation by 40-70%. In serum-free medium, fetal calf serum, but if Fe-free mouse or human transferrins were added, proliferation-inducing membrane signalling event following interaction addnl. requirement for the Fe-binding protein transferrin, the ability of Mn was present in the culture medium. The degree of proliferation in donating properties, and that an addnl. role such as the provision of a mouse lymphocytes to proliferate in response to concanavalin A was the total metal satn. to 30%, gave no improvement in proliferation. to that when normal human transferrin was used. Finally, when a monoclonal antibody to the mouse transferrin receptor and Fe

L10 ANSWER 201 OF 240 CA COPYRIGHT2001 ACS

with the transferrin receptor seems unlikely.

AN 103:67753 CA

Transferrin variants in Tuscany (Italy). Evidence for two "new Tf alleles

AU Giari, A.; Weidinger, S.; Domenici, R.; Bargagna, M.

SO Hum. Genet. (1985), 69(3), 284-6 CODEN: HUGEDQ; ISSN: 0340-CS 1st. Med. Leg. Assicur., Univ. Pisa, Pisa, 56100, Italy 6717 DT Journal LA English

AB Polyacrylamide gel isoelec. focusing (PAGIF) with carrier ampholytes unrelated healthy blood donors from Tuscany (Italy). Thirteen rare variants subtypes). Among them 2 apparently new variants, tentatively called Tf was used for the detn. of transferrin (Tf) phenotypes in a sample of 965 in a heterozygote state were found (4 TfD, 7 TfB, and 2 rare TfC

ANSWER 237 OF 240 CA COPYRIGHT2001 ACS

C15 and TfB4, were identified. The rare TfB0 *mutant* was also obsd.

72:18486 CA Ā

Human *transferrins* C and DChi: an amino acid difference Wang, An-Chuan; Sutton, H. Eldon; Howard, Particia N. ΑÜ

Univ. of Texas, Austin, Tex., USA

Biochem. Genet. (1967), 1(1), 55-9 CODEN: BIGEBA DT Journal English လ လ LA

new point of attack for trypsin. On the basis of the genetic code, arginine is AB A single peptide difference has been found in tryptic digests of human sequence Asp-Ser-Ala-His-G ly-Phe-Leu-Lys. The corresponding peptide from Tf Dchi had the compn. (Gly, Phe, Leu, Lys). Apparently, histidine, the TFC peptide was replaced by lysine or argi nine in Tf Dchi, producing tra nsferrins (Tf) C and Dchi. The peptide isolated from Tf C had the proposed as the replacement

ANSWER 238 OF 240 CA COPYRIGHT2001 ACS

Howard, Patricia N.; Wang, An-Chuan; Sutton, H. Eldon AN 70:93182 CA
TI *Transferrin* D(sub chi): amino acid *substitution**

Univ. of Texas, Austin, Tex., USA

Biochem. Genet. (1968), 2(3), 265-9 CODEN: BIGEBA DT Journal English AU CS 1 LA 1

result of the replacement of histidine by arginine in the transferrin C peptide AB A peptide difference was found in the neutral band (pH 6.4) regions of tryptic digests of human transferrins C and D.chi.. This peptide was isolated, hydrolyzed, and subjected to amino acid anal. and found to have 4 amino acids: arginine, aspartic acid, serine, and alanine. This peptide is the so that the sequence Asp-Ser-Ala-His-becomes Asp-Ser-Ala-Arg-.

1990 L13 ANSWER 1 OF 147 CA COPYRIGHT2001 ACS
TI Serum-free culture medium for mammalian cells PY

L13 ANSWER 2 OF 147 CA COPYRIGHT2001 ACS

TI Uptake and intracellular distribution of iron from transferrin and chelators in erythroid cells PY *1990**

L13 ANSWER 3 OF 147 CA COPYRIGHT2001 ACS
TI Studies on the biochemical polymorphism of blood protein and enzyme in Che Ju native horses. IV. Genetic variability and relationship PY *1990*

L13 ANSWER 4 OF 147 CA COPYRIGHT2001 ACS

TI Selective enrichment for temperature-sensitive secretion *mutants** of mammalian cells using plant lectin, concanavalin A PY *1990**

L13 ANSWER 5 OF 147 CA COPYRIGHT2001 ACS
TI Site-specific rate constants for iron removal from diferric transferrin by nitrilotris(methylenephosphonic acid) and pyrophosphate PY *1990**

L13 ANSWER 6 OF 147 CA COPYRIGHT2001 ACS

TI Anion binding to uteroferrin. Evidence for phosphate coordination to the iron(III) ion of the dinuclear active site and interaction with the hydroxo bridge PY *1990**

L13 ANSWER 7 OF 147 CA COPYRIGHT2001 ACS

Hemoglobin niosomes. II. In vitro interactions with plasma proteins and phagocytes PY *1990**

TI A comparison of the structure and properties of normal human transferrin and a genetic variant of human transferrin PY 1990 L13 ANSWER 8 OF 147 CA COPYRIGHT2001 ACS

L13 ANSWER 9 OF 147 CA COPYRIGHT2001 ACS

heterogeneity is related to the number of glycans and to the presence of N-acetylneuraminic acid and N-acetyl-4-O-acetylneuraminic acid PY *1989** Primary structure of horse serotransferrin glycans. Demonstration that

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Use of two human proteins, albumin and transferrin, for making a serum *substitute* adapted for monoclonal antibody production PY *1989** L13 ANSWER 10 OF 147 CA TI Use of two human proteins.

*1989 ΡY Expression from the transferrin gene promoter in transgenic mice ANSWER 11 OF 147 CA COPYRIGHT2001 ACS

Evidence for a factor in normal human serum that induces human neutrophilic ANSWER 12 OF 147 CA COPYRIGHT2001 ACS LI3 TI E

granulocyte end-stage maturation in vitro PY 1989

ANSWER 13 OF 147 CA COPYRIGHT2001 ACS Inclusion of antioxidants in resuscitation fluids PY *1988** 113

Schistosoma mansoni: effect of transferrin and growth factors on development of CA COPYRIGHT2001 ACS schistosomula in vitro PY *1989** ANSWER 14 OF 147 123

ANSWER 15 OF 147 CA COPYRIGHT2001 ACS

Indications of plasmapheresis and selection of different *substitution* solutions **6861* 7 I

Potential labeling of monoclonal antibodies with positron emitters PY ANSWER 16 OF 147 CA COPYRIGHT2001 ACS L13

*1988

Hemolyzates reduce iron released from transferrin PY ANSWER 17 OF 147 CA COPYRIGHT2001 ACS 123

A splicing defect in the mouse transferrin gene leads to congenital ANSWER 18 OF 147 CA COPYRIGHT2001 ACS atransferrinemia PY *1989** 123

L13 ANSWER 19 OF 147 CA COPYRIGHT2001 ACS
TI Glutamine-independent human lymphoblastic cells and their establishment

PY

PY *1989** Serum-free mouse embryo cells: growth responses in vitro L13

ANSWER 20 OF 147 CA COPYRIGHT2001 ACS

Relaxation of the electronic spin moment of copper(II)-macromolecular complexes ANSWER 22 OF 147 CA COPYRIGHT2001 ACS 113 TI R

Υ Isolation and characterization of hemolysin *mutants* of Vibrio vulnificus COPYRIGHT2001 ACS L13 ANSWER 23 OF 147 CA TI Isolation and characterizatio **6861* in solution PY

L13 ANSWER 24 OF 147 CA COPYRIGHT2001 ACS

Interleukin 1 induction of a serine esterase in a murine T cell line is inhibited by calf serum PY *1989** TI Interleukin lifetal calf serum

Serum-free culture of insulin-secreting clonal cells from a hamster insulinoma *1989** COPYRIGHT2001 ACS L13 ANSWER 25 OF 147 CA TI Serum-free culture of insulin PY *1989**

L13 ANSWER 26 OF 147 CA COPYRIGHT2001 ACS

TI A pilot study of the use of placental cord blood samples in monitoring for *mutational* events PY *1988**

A growth-promoting factor for human myeloid leukemia cells from horse serum L13 ANSWER 27 OF 147 CA COPYRIGHT2001 ACS identified as horse serum transferrin PY 1989 F

Damage of the outer membrane of enteric Gram-negative bacteria by lactofernin ANSWER 28 OF 147 CA COPYRIGHT2001 ACS and transferrin PY *1988** L13

1987 1989 ΡY TI Freeze-protection of proteins for medical and other uses L13 ANSWER 29 OF 147 CA COPYRIGHT2001 ACS

*1988 ΡY Hemoglobin: a lifesaver and an oxidant. How to tip the balance COPYRIGHT2001 ACS ANSWER 30 OF 147 CA L13

Development of a serum-free medium for in vitro immune responses by using 1a.-evelodextrin. Demonstration of the requirements for polyamines PY *1988** beta -cyclodextrin. Demonstration of the requirements for polyamines ANSWER 31 OF 147 CA COPYRIGHT2001 ACS L13

*1988 L13 ANSWER 32 OF 147 CA COPYRIGHT2001 ACS TI Nucleotide sequence of porcine liver transferrin PY

TI Preparation and testing of biotinylated psoralens as neoplasm inhibitors and biochemical tools PY 1987 1989 1987 1988 L13 ANSWER 33 OF 147 CA COPYRIGHT2001 ACS

L13 ANSWER 34 OF 147 CA COPYRIGHT2001 ACS

Interactions of growth factors and retroviral oncogenes with mitogenic signal ransduction pathways of Balb/MK keratinocytes PY *1988**

*1988 L13 ANSWER 35 OF 147 CA COPYRIGHT2001 ACS

Characterization of the amino acid change in a transferrin variant PY

ANSWER 36 OF 147 CA COPYRIGHT2001 ACS Biologic effects of transdemal estradiol PY *1988**

Enhancement of cytotoxicity of modeccin by nigericin in modeccin-resistant ANSWER 37 OF 147 CA COPYRIGHT2001 ACS *mutant* cell lines PY *1988** 13

L13 ANSWER 38 OF 147 CA COPYRIGHT2001 ACS
TI A chloroquine-resistant Swiss 3T3 cell line with a defect in late endocytic acidification PY *1988** ANSWER 39 OF 147 CA COPYRIGHT2001 ACS
Hereditary hypotransferrinemia with hemosiderosis, a murine disorder resembling human atransferrinemia PY *1987** 153 174

L13 ANSWER 40 OF 147 CA COPYRIGHT2001 ACS
TI Kinetics of endosome acidification in *mutant* and wild-type Chinese hamster ovary cells PY L13 ANSWER 41 OF 147 CA COPYRIGHT2001 ACS
TI Isolation by streptonigrin enrichment and characterization of a transferrin-specific iron uptake *mutant* of Neisseria meningitidis PY *1987**

Acidification of morphologically distinct endosomes in *mutant ** and wild-type L13 ANSWER 42 OF 147 CA COPYRIGHT2001 ACS TI Acidification of morphologically distinct endosomes in Chinese hamster ovary cells PY *1987**

ΡY L13 ANSWERVASOF.147.CA COPYRIGHT2001 ACS L13 ANSWERVASOF.147.CA copyresion and application TI Protein conjugates of bis-indole alkaloids, their preparation and application L13 ĀNSWĒRA3©P.147.CA COPYRUGH1 2001 AC TI Protein conjugates of bis-indole alkaloids, their prer 1987 1987 1990 1990 1987 1987 1988 1988 1987 1987

COPYRIGHT2001 ACS doligosaccharides PY S L13 ANSWER 44 OF 147

L13 ANSWER 45 OF 147 CA COPYRIGHT2001 ACS

II Differential loss of enzyme activity by vitamin C and iron containing proteins

PY

Tertiary structure in N-linked oligosaccharides

L13 ANSWER 46 OF 147 CA COPYRIGHT2001 ACS
TI Virulence of iron transport *mutants* of Shigella flexneri and utilization of host

iron compounds PY *1987**

L13 ANSWER 47 OF 147 CA COPYRIGHT2001 ACS

causing differential TI Transferrin-mediated transcellular transport of iron-59 across confluent epithelial **986I* ሏ TI A thermosensitive lesion in a Chinese hamster cell *mutant** sheets of Sertoli cells grown in bicameral cell culture chambers L13 ANSWER 48 OF 147 CA COPYRIGHT2001 ACS

L13 ANSWER 49 OF 147 CA COPYRIGHT2001 ACS
TI Determination of ultrafiltrable zinc, transferrin bound and albumin bound zinc using ultrafiltration and flameless A.A.S PY 1985 effects on the acidification of endosomes and lysosomes PY

L13 ANSWER 50 OF 147 CA COPYRIGHT2001 ACS TI Absorption of fortification iron from milk formulas in infants

••9861• Kd

1985 1986 1990 PY L13 ANSWER 51 OF 147 CA COPYRIGHT2001 ACS TI Iron 3-hydroxy pyrone or 3-hydroxy pyridone complexes PY 1991 1986 1985 1987 1988 1985 1991 1991 1985 1989 1985 1995

*1986** TI NMR studies on copper(II) containing biological molecules PY L13 ANSWER 52 OF 147 CA COPYRIGHT2001 ACS

L13 ANSWER 53 OF 147 CA COPYRIGHT2001 ACS

TI Internal proton magnetic resonance probes for pH titration of proteins PY *1986

transport, and morphology of Chinese hamster ovary cells, CHO-K1 (CCL 61) and the isolation of insulin "independent" "mutants** PY *1986** TI A defined medium for and the effect of insulin on the growth, amino acid L13 ANSWER 54 OF 147 CA COPYRIGHT2001 ACS

TI Electron spin resonance and magnetic relaxation studies of gadolinium(III) L13 ANSWER 55 OF 147 CA COPYRIGHT2001 ACS complexes with human transferrin PY *1986**

L13 ANSWER 56 OF 147 CA COPYRIGHT2001 ACS

L13 ANSWER 57 OF 147 CA COPYRIGHT2001 ACS

TI Magnetic relaxation of solvent protons by copper(2+)- and dioxovanadium(2+)- *
substituted transferrin: theoretical analysis and biochemical implications PY 1985

L13 ANSWER 58 OF 147 CA COPYRIGHT2001 ACS
TI Effects of siderophores on the growth of Pseudomonas aeruginosa in human serum and transferrin PY *1985** PY 1985

TI Transferrin variants in Tuscany (Italy). Evidence for two "new" If alleles PY 1985 L13 ANSWER 59 OF 147 CA COPYRIGHT2001 ACS

TI Establishment of rat fetal liver lines and characterization of their metabolic and hormonal properties: use of temperature-sensitive SV40 virus PY *1985** L13 ANSWER 60 OF 147 CA COPYRIGHT2001 ACS

L13 ANSWER 61 OF 147 CA COPYRIGHT2001 ACS

- Modulation of interleukin 2 release from a primate lymphoid cell line in serumfree and serum-containing media PY 1985
- 1984 PY Comparison of bovine serum transfernin A and D2. II. Glycopeptides ANSWER 62 OF 147 CA COPYRIGHT2001 ACS
- Amino acid residue Comparison of Dovine serum transferrin A and D2. I. trences PY *1984** differences PY
- Crossed immunoelectrophoretic analysis of serum abnormalities following thermal ANSWER 64 OF 147 CA COPYRIGHT2001 ACS injury PY *1984**
- Studies on equine transferrin I. The isolation and partial characterization of the L13 ANSWER 65 OF 147 CA COPYRIGHT2001 ACS Dand R variants PY *1985**
- 1984 1985 ΡY Protein compositions substantially free from infectious agents ANSWER 66 OF 147 CA COPYRIGHT2001 ACS TI Protein compositions substantially free from in 1988 1985 1984 1986 1985 1988 1984 1993 1987 23
- On deciding which factors regulate cell growth PY *1984** L13 ANSWER 67 OF 147 CA COPYRIGHT2001 ACS
- L13 ANSWER 68 OF 147 CA COPYRIGHT2001 ACS
- Hormonally defined, serum-free medium for a proximal tubular kidney epithelial cell line, LLC-PK1 PY *1984** F
- TI Influence of genetic, cellular, and hormonal factors on simian virus 40-induced transformation PY *1984** L13 ANSWER 69 OF 147 CA COPYRIGHT2001 ACS
- L13 ANSWER 70 OF 147 CA COPYRIGHT2001 ACS
 TI The relative effect of ascorbic acid on iron absorption from soy-based and milk-based infant formulas PY *1984**
- Effect of insulin and transferrin in the maintenance of the activated state of the T-ANSWER 71 OF 147 CA COPYRIGHT2001 ACS TI Effect of insulin and transferrin in the mailymphocyte induced by allo-antigen PY 1984
- The relationships of cartilaginous fishes: an immunological study of serum II The relationships of cartilaginous fishes: an immunological transferrins of holocephalans and elasmobranchs PY *1984** L13 ANSWER 72 OF 147 CA COPYRIGHT2001 ACS
 - Hydrophobic interactions in Plasmodium falciparum invasion into human COPYRIGHT2001 ACS ANSWER 73 OF 147 CA 113 11 H
- ANSWER 74 OF 147 CA COPYRIGHT2001 ACS Serum-free medium for hybridoma and parental myeloma cell cultivation: a novel composition of growth-supporting substances PY *1984** erythrocytes PY *1984**
- 1984 1988 ΡY TT Supplements and their combination for cell culture mediums 1984 1992 1995 CA COPYRIGHT2001 ACS **ANSWER 75 OF 147**
- *1984** PY L13 ANSWER 76 OF 147 CA COPYRIGHT2001 ACS TI Mechanism of action of blood components in transfusion
- ANSWER 77 OF 147 CA COPYRIGHT2001 ACS 113
- The effect of antioxidants and medium composition on isolation and culture of colar type II pneumocytes PY *1983** alveolar type II pneumocytes
- L13 ANSWER 78 OF 147 CA COPYRIGHT2001 ACS
- *substituted* enzyme and function of manganese(III) and iron(III) in plant and Manganese (III)-containing acid phosphatase. Properties of iron(III)mammalian acid phosphatases PY *1984**
- L13 ANSWER 79 OF 147 CA COPYRIGHT2001 ACS

- Increased colony Hormone supplemented media for cloning human breast cancer: *1983** TI Hormone supplemented media for cloning human formation without alteration of chemosensitivity PY
- L13 ANSWER 80 OF 147 CA COPYRIGHT2001 ACS

 TI The defects in all classes of aryl hydrocarbon hydroxylase-deficient *mutant* of mouse hepatoma line, Hepta-1, are restricted to activities catalyzed by cytochrome P-450 PY
- TI Erythropoietin bioassays using fetal mouse liver cells: validations and technical improvements PY *1983** COPYRIGHT2001 ACS L13 ANSWER 81 OF 147 CA

L13 ANSWER 82 OF 147 CA COPYRIGHT2001 ACS

- Multiplication-stimulating activity (MSA) can *substitute* for insulin to stimulate the secretion of testicular transferrin by cultured Sertoli cells PY *1983**
- *1983** Serum-free culture of PC13 murine embryonal carcinoma cells PY L13 ANSWER 83 OF 147 CA COPYRIGHT2001 ACS TI Serum-free culture of PC13 murine embryonal carcino
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0019-9567 Journal Code: GO7 Languages: ENGLISH Document type: JOURNAL removed or modified N-linked ARTICLE

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Progress in clinical and biological research

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